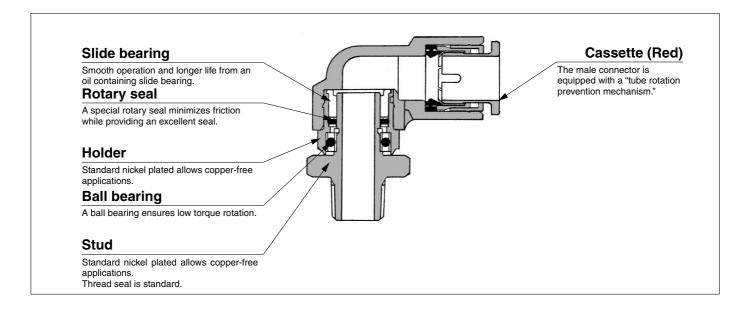


Inch-size Rotary One-touch Fittings Standard Type

Series KS

Applicable Tubing: Inch Size



Low-torque rotation style rotary One-touch fittings

Applicable to use for oscillating and rotating sections in robots.

Applicable to non-copper type (With electroless nickel plated)

Thread seal is standard.



Male connector

Applicable Tubing

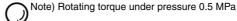
Tubing material Note)	Nylon, Soft nylon, Polyurethane						
Tubing O.D.	ø5/ ₃₂ ", ø1/ ₄ ", ø5/ ₁₆ ", ø3/ ₈ "						
Note) Monitor max.operating pressure for soft nylon and polyurethane tubing.							

Specification

Fluid	Air
Maximum operating pressure	1.0 MPa
Operating vacuum pressure	-100 kPa
Proof pressure	3.0 MPa
Ambient and fluid temperature	−5 to 60°C (No freezing)
Thread	ANSI/ASMEB1.20.1-1983 (NTP thread) JIS B 0212 2A, Class 2B (UNF thread)

Rotating Torque/Allowable Number of Rotations

Applicable tubing O.D.	ø5/ ₃₂ "	ø1/4"	ø 5/16"	ø 3/8"
Rotating torque (N·m) Note)	0.006	0.012	0.014	0.020
Allowable number of rotations (S-1)	8.3	8.3	6.7	5



Principal Parts Material

<u> </u>	
Body	PBT
Stud, Holder, Guide	Stainless steel 304, C3604BD (With electroless nickel plated)
Chuck, Retainer	Stainless steel 304
Collet, Release button, Snap ring	Polyacetal
O-ring, Packing	NBR
Rotary seal	NBR
Slide bearing	Oil-containing polyacetal
Scraper	_
Ball bearing	Bearing steel
Gasket	Stainless steel 304, NBR



Series KS

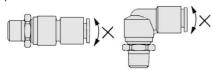
Model	Connection thread		Applicable tub		
iviodel	Connection thread	ø 5/32"	ø 1/4 "	ø 5/16"	ø ³ /8"
		,			
Male connector KSH	10-32 UNF	+			
	NPT ½	+	-	<u> </u>	
	NPT ¹ / ₄		<u> </u>	<u> </u>	<u> </u>
	NPT ³ / ₈				-
Male elbow KSL	10-32 UNF	•			
	NPT ½	—	<u> </u>	<u> </u>	
4	NPT 1/4			<u> </u>	
	NPT 3/8				<u> </u>

A Precautions

Be sure to read before handling. Refer to pages 15-18-3 to 15-18-4 for Safety Instructions and Common Precautions on the products mentioned in this catalog, and refer to pages 15-1-10 to 15-1-11 for Precautions on every series.

⚠ Caution

1. Implement the tube piping in such a way that the lateral load should not be applied. Although ball bearing is adopted, however if the lateral load were applied on it, it may adversely affect the life expectancy. A flexible polyurethan tube is recommended when the lateral load is applied.



K□











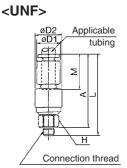
Series KS

Male Connector: KSH (Standard)

	-	1	a	
	THE ALL			1

tubing O.D.	Connection thread UNF	Model	H (Width across		D2	L	A *	М	Min.	Effectiv (m) Nylon		Weight (g)	
(inch)	NPT		flats)						SIZE	inyion	Urethane	(3)	
5/32	10-32 UNF KSH03-3	KSH03-32	8	10.4	12	36.5	33	16	2.5	4.0	4.0	9	
9/32	1/8	KSH03-34S	12.7	10.4	12	38.5	34.5	10	2.5	4.0	4.0	14	
1/4	1/8	KSH07-34S	14.29	13.2	14	39.5	35.5	17	4	13.4	10.4	17	
	1/4	KSH07-35S				42.5	36.5					23	
5/	1/8	KSH09-34S	17.46	15.2	5.2 17	44	40	18.5	6	26.1	18.0	23	
5/16	1/4	KSH09-35S				47	41	10.5				29	
3/8	1/4	KSH11-35S	22.23	17.0	7.9 22	54	48	0.1	7	36.3	29.5	55	
	3/8	KSH11-36S	22.20	17.9		55	48.5	21	′			63	

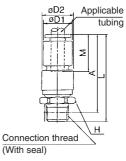
^{*} Reference dimensions after NPT thread installation.



<NPT>







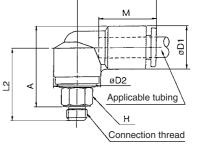
Male Elbow: KSL (Standard)

1		(300) (1)	A
	1	Pigg.	1
U			

	tubing	thread	Madal	(Width	Width	D1 D2		L2	A *		Min. port	Effective area (mm²)		Weight	
	O.D. (inch)	UNF NPT	Model	àcross flats)		.						Nylon	Urethane	(g)	(g)
	5/32	10-32 UNF	KSL03-32	8	10.4	10.4 12	21	20.5	22	16	2.5	3.5	3.5	9	
	9/32	1/8	KSL03-34S	12.7				22	23.5					14	
17.	1/8	KSL07-34S	4400	100	14	23.5	23	25.5	47	4	8.6	8.6	17		
	1/4	1/4	KSL07-35S	14.29	13.2	14	23.5	26	26.5	17	4	0.0	0.0	23	
	5/-	1/8	KSL09-34S	17.46	15.0		26	26.5	30	18.5	5 6	21.6	14.9	23	
	5/16	1/4	KSL09-35S	1	_			29.5		10.5				29	
3/8	1/4	KSL11-35S	22 23	170	22	21 5	34	37	21	21 7	30.5 25.0	25.0	56		
	3/8	KSL11-36S	22.20	17.9	1.9 22	31.5	35	38	۷۱			25.0	64		

* Reference dimensions after NPT thread installation.





<NPT>

<UNF>



<NPT>

<UNF>

